

1.1/2: Categorical Variables and Displaying Distributions with Graphs

Individuals and Variables

- **Individuals** are objects described by a set of data. Individuals may be people, but they may also be animals or things.
- A **variable** is any characteristic of an individual. A variable can take different values for different individuals.

Categorical and Quantitative Variables

- A **categorical variable** places an individual into one of several groups or categories.
- A **quantitative variable** takes numerical values for which arithmetic operations such as adding and averaging make sense.

Distribution

The **distribution** of a variable tells us what values the variable takes and how often it takes these variables.

Describing the Overall Pattern of a Distribution – Remember your SOCS

To describe the overall pattern of a distribution, address all of the following:

- **Spread** – give the lowest and highest value in the data set
- **Outliers** – are there any values that stand out as unusual?
- **Center** – what is the approximate average value of the data (only an estimation)
- **Shape** – does the graph show symmetry, or is it skewed in one direction (see below)

Outliers

An outlier in any graph of data is an individual observation that falls outside the overall pattern of the graph.

Describing the SHAPE of a distribution – Symmetric and Skewed Distributions



Time Plot

- A **time plot** of a variable plots each observation against the time at which it was measured.
- Always mark the time scale on the horizontal axis and the variable of interest on the vertical axis. If there are not too many points, connecting the points by lines helps show the pattern of changes over time.

Ap Statistics Chapter 1 Exploring Data

**Daren Starnes, Josh Tabor, Dan
Yates, David S. Moore**



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Apex AP Statistics Kaplan Educational Center Staff, Learning Apex, 2001-05 This

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Mining Imperfect Data Ronald K. Pearson,2020-09-10 It has been estimated that as much as 80% of the total effort in a typical data analysis project is taken up with data preparation including reconciling and merging data from different sources identifying and interpreting various data anomalies and selecting and implementing appropriate treatment strategies for the anomalies that are found This book focuses on the identification and treatment of data anomalies including examples that highlight different types of anomalies their potential consequences if left undetected and untreated and options for dealing with them As both data sources and free open source data analysis software environments proliferate more people and organizations are motivated to extract useful insights and information from data of many different kinds e g numerical categorical and text The book emphasizes the range of open source tools available for identifying and treating data anomalies mostly in R but also with several examples in Python *Mining Imperfect Data With Examples in R and Python* Second Edition presents a unified coverage of 10 different types of data anomalies outliers missing data inliers metadata errors misalignment errors thin levels in categorical variables noninformative variables duplicated records coarsening of numerical data and target leakage It includes an in depth treatment of time series outliers and simple nonlinear digital filtering strategies for dealing with them and it provides a detailed introduction to several useful mathematical characteristics of important data characterizations that do not appear to be widely known among practitioners such as functional equations and key inequalities While this book is primarily for data scientists researchers in a variety of fields namely statistics machine learning physics engineering medicine social sciences economics and business will also find it useful

[Cracking the AP Statistics Exam](#) ,2002

Statistics Ditlev Monrad,William F. Stout,Robert Gould,Louis Ablen Roussos,Barbara A. Bailey,James R. Fryxell,Xuming He,Von Roderick Plessner,2001

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